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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/674,231	09/29/2003	Larry E. Maple	10970672-4	1894

7590 06/14/2005

HEWLETT-PACKARD COMPANY
Intellectual Property Administration
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Fort Collins, CO 80527-2400

EXAMINER

WILLS, MONIQUE M

ART UNIT	PAPER NUMBER
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1746

DATE MAILED: 06/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/674,231

Applicant(s)

MAPLE

Examiner

Monique M. Wills

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 4/6/05.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 21-42 is/are pending in the application.
- 4a) Of the above claim(s) 21-27 and 38-42 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 27, 28, 33 and 38 is/are rejected.
- 7) ☒ Claim(s) 30-32 and 34-36 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Election/Restrictions

Claims 21-27 & 38-42 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected battery compartment, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on March 29, 2005.

Applicant's election without traverse of claims 28-37 in the reply filed on March 29, 2005 is acknowledged.

Allowable Subject Matter

Claims 30-32, 34-36 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

With respect to claims 30 & 31, the instant claims would be allowable over the prior art of record, because the prior art is silent to a battery case constructed such that a curved edge of the terminal of a first installed battery is in contact with a planar terminal surface of an abutting second installed battery or an abutting device contact; and means for urging the first installed battery toward the second installed battery or the device contact such that the

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curved edge of the terminal applies a pressure sufficient to rupture the insulating contaminant layer disposed on the surface of the abutting terminal of the second installed battery or abutting device contact.

With respect to claim 32, the rupturing means comprises: a coiled spring battery cant disposed at one end of the battery compartment, the contact comprising a plurality of concentric windings with a terminal contact point on the upper end turn thereof, the terminal contact point configured to contact an abutting battery sufficient to cause the terminal contact point to rupture an insulating contaminant layer on the abutting battery terminal surface.

With respect to claims 34-35, the removing means comprises a battery case constructed such that a curved edge of the terminal of a first installed battery is in contact with a planar terminal surface of an abutting second installed battery or an abutting device contact; and means for imparting a relative lateral motion between the adjacent batteries and/or between the first installed battery and the device contact when the batteries are installed in the battery compartment, wherein such lateral movement is sufficient to remove at least a portion of the insulating contaminant layer on the surface of the abutting battery terminal or device contact.

With respect to claim 36, wherein the means for imparting a relative lateral motion comprises: the battery compartment configured such that a distance between device contacts disposed on opposing ends of the battery compartment is less than the length of the serially aligned batteries, wherein a

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spring force applied by the device contacts to compress the batteries against each other can be overcome by a force applied to a partially installed second battery that causes a relative lateral movement between the second battery and a previously installed first battery.

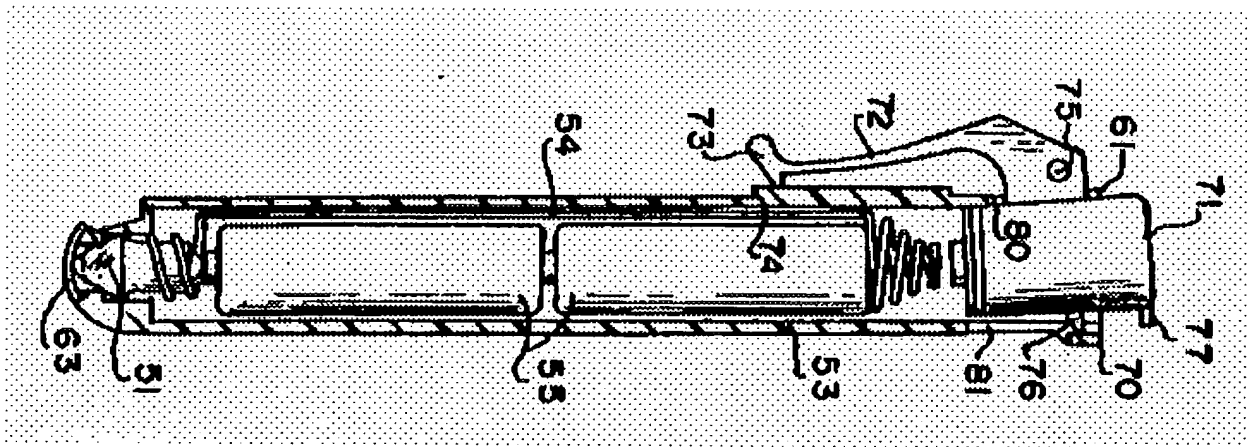
Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 28-29 & 33 are rejected under 35 U.S.C. 102(b) as being anticipated by McDermott U.S. Patent 5,050,053.



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With respect to claim 28, McDermott teaches a battery-powered device (10) comprising positive and negative contacts (col. 4, lines 25-35) and coiled spring means for minimizing battery-to-battery contact resistance (col. 7, lines 1-5). As to claim 29, the limitation for rupturing an insulating contaminant layer disposed on portion of one or more abutting battery terminals, the coiled spring contact is capable of performing said function. With respect to claim 33, the limitation for removing an insulting contaminant layer disposed on the portions of the battery terminals that contact each other, the spring contact is capable of performing said function. Therefore, the instant claims are anticipated by McDermott.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 37 is rejected under 35 U.S.C. 103(a) as being unpatentable over McDermott U.S. Patent 5,050,053as in view of Garrett et al. U.S. Patent 6,708,887.

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McDermott teaches a battery compartment with means for reducing internal battery resistance as described in the § 102 rejection cited hereinabove.

The reference is silent to employing the battery in a hand-held scanner.

Garrett teaches a hand-held scanner in electrical communication with a computer.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to employ the hand-held scanner of Garrett with a battery compartment of McDermott in order to increase portability of the scanner.

Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Monique Wills whose telephone number is (571) 272-1309. The Examiner can normally be reached on Monday-Friday from 8:30am to 5:00 pm.

If attempts to reach Examiner by telephone are unsuccessful, the Examiner's supervisor, Michael Barr, may be reached at 571-272-1414. The

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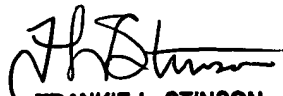
fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MW

6/12/05


FRANKIE L. STINSON
PRIMARY EXAMINER
GROUP 3400/1700